RESOURCE OPTIMIZATION IN WORKFLOWS
ABSTRACT

Workflows are constructed to minimize a cost function that can be representative of
information exposure risk and resource overhead. Given a workflow specification that
defines a predetermined input and a required output, a set of possible workflows that meet
this workflow specification can be constructed. The possible workflows are constructed
using components that have defined inputs and outputs. A set of possible workflows
results, and an exposure measure is calculated for each of these possible workflows. A
workflow that has a minimum calculated exposure measure is selected and returned.